TurboDriver & separation curves

This note applies if you have Impression Style, Impression Publisher, Impression Publisher Plus or ArtWorks 1.5

Separation curves are primarily intended for colour printers using four inks, Black, Cyan, Magenta, and Yellow. Theoretically the printer should exactly reproduce any particular colour or shade you specify in an application. In practice, the four inks are not pure colours and the printer may have non-linearities in its colour handling. Separation curves compensate for these factors when sending colour information to the printer.

Separation curves can also benefit black & white printers by correcting any non-linearities when printing shades of grey.

Separation curves only affect colours defined using the RGB or HSV colour models. Colours defined using the CMYK colour model are never altered.

TurboDriver now includes one or more separation curves optimised for the particular printer. It also includes a *Linear* curve which, as its name suggests, has a linear response and does not modify the colour information.

Impression Style, Impression Publisher, Impression Publisher Plus and ArtWorks 1.5 also let you select separation curves suitable for a particular printer. However, if both the application and TurboDriver try to colour correct, the result is poor quality prints. The solution is for the application to apply any necessary correction and for TurboDriver to use the *Linear* curves.

This involves copying the printer-specific curves into the application. This operation is described below.

Finding the TurboDriver separation curves

If you have not already installed the TurboDriver software, you should do so now.

The separation curves are in the *!CCShared* directory inside *!System*.

Each step opens a directory display. You then double-click on an icon in that directory display. If you are unsure how to perform these operations, refer to the *Welcome Guide* supplied with your computer.

If you have a Risc PC

1 Hold down the *Shift* key and double-click on *!Boot* in the root directory.

2 Double-click on *Resources*.

3 Hold down the *Shift* key and double-click on *!System*.

4 Hold down the *Shift* key and double-click on *!CCShared*.

5 Double-click on *cmyk*. This contains directories, each of which contains a set of separation curves. Always copy an entire directory of curves.

Other types of computer

1 Hold down the *Shift* key and double-click on *!System*. This is usually in the root directory.

2 Hold down the *Shift* key and double-click on *!CCShared*.

3 Double-click on *cmyk*. This directory contains directories, each of which contains a set of separation curves. Always copy an entire directory of curves.

Separation curve names

Linear is a set of linear curves and does not alter the colour information.

MonoTD is used by black & white printers to compensate for non-linearities when printing shades of grey.

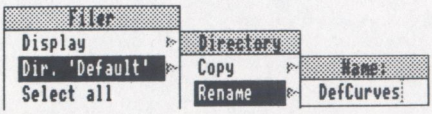
The other curves are for specific types of colour printer. Some types of printer require different curves for printing on plain paper and on special coated paper. Names ending ***p*** or ***pp*** are for plain paper (*BJC600p*); ***c*** or ***cp*** are for coated paper (*BJC600c*). If a printer has only one set of curves, the name does not have a suffix (*BJC800*).

If you have Impression Style

Copying the curves

You now have to copy the appropriate set of curves into the Style application.

1 If Style is loaded on the icon bar, save any documents and quit it.
2 Hold down the *Shift* key and double-click on *!Style* in a directory display.
3 Double-click on *Resources*.
4 Double-click on *cmyk*.
5 Use the Filer menu to copy *Default* to *DefCurves* (or other suitable name). This means you have a copy of the original curves if required in the future.



6 Copy the required curve directories from the *!CCShared cmyk* directory into the *!Style cmyk* directory.

Using a new set of separation curves

7 Rename the required curve directory to *Default*.

You can now load Style. Before printing, read the section *Setting up TurboDriver*.

If you have Publisher or Publisher Plus

Copying the curves

You now have to copy the appropriate curve or curves into the Publisher/ Publisher Plus application.

1 If Publisher/Publisher Plus is loaded on the icon bar, save any documents and quit it.
2 Hold down the *Shift* key and double-click on *!Publisher/!Publish+* (as appropriate) in a directory display.
3 Double-click on *Resources*.
4 Double-click on *cmyk*.
5 Copy the required curve directories from the *!CCShared cmyk* directory into the *!Publisher/Publish+ cmyk* directory.

You can now close the directory displays.

Using a new set of separation curves

1 Load Publisher/Publisher Plus.
2 Choose *Preferences* from the Icon Bar Menu. This opens the Preferences dialogue box.
3 Scroll down the list of options until you see *Colour table*.
4 Click on the menu icon to the right to display a menu of available separation curves (tables).
5 Choose the option suitable for your printer and type of paper.
6 Click **Save** to make this the default option.

Before printing, read the section *Setting up TurboDriver*.

If you have ArtWorks 1.5

Copying the curves

You now have to copy the appropriate curve or curves into the ArtWorks application.

1 If ArtWorks is loaded on the icon bar, save any documents and quit it.
2 Hold down the *Shift* key and double-click on *!ArtWorks* in a directory display.
3 Double-click on *Resources*.
4 Double-click on *cmyk*.
5 Copy the required curve directories from the *!CCShared cmyk* directory into the *!ArtWorks cmyk* directory.

You can now close the directory displays.

Using a new set of separation curves

1 Load ArtWorks.
2 If necessary, load *!Printers*.
3 Display the Print dialogue box.
The *Colour table* field is greyed except when printing separations or when the selected printer is a colour printer. If this field is greyed, you cannot change the separation curves in use.
4 Click on the menu icon to the right to display a menu of available separation curves (tables).
5 Choose the option suitable for your printer and type of paper.
6 Select *Colour correction*.
7 Click **Set values**.

If you want make these new separation curves the default edit the default document. This is described on page 25 of the ArtWorks manual.
Before printing, read the section *Setting up TurboDriver*.

Setting up TurboDriver

To print from Style, Publisher, Publisher Plus or ArtWorks

1 Load *!Printers* if this is not already loaded.
2 Hold down *Shift* and click on the TurboDriver icon on the icon bar. This opens the Configuration dialogue box. (Described in detail on page 15 of the TurboDriver manual.)
3 In that dialogue box click **Set**. This opens the halftone dialogue box. (Described in detail on page 19 of the TurboDriver manual.)
4 From the colour table menu choose *Linear*.
5 Click **OK** in both dialogue boxes.

To print from other applications

This is the same as described above except that in step 4 you should choose a table suitable for your type of printer and paper.

The future

We regret that this procedure is necessary. It is result of pushing the Acorn printing system beyond its normal capabilities. We hope to make future releases of software that automatically detect this clash of colour correction and automatically make any necessary adjustments.